

Amendments to the Claims:

This listing of claims replaces all prior versions and listings of claims in the application.

Listing of Claims:

1. (Withdrawn) A method for preparing a hair dermal papilla cell preparation comprising: providing a cell suspension by removing epidermal tissue from skin tissue and subjecting the resulting dermal tissue fraction to collagenase treatment, and cryopreserving the cell suspension to kill the follicular epidermal cells.
2. (Withdrawn) A method according to claim 1, wherein the cryopreservation is carried out after adjusting the cell density of the cell suspension to  $1 \times 10^5$  to  $1 \times 10^8$ /ml.
3. (Withdrawn) A method according to claim 1, wherein the cryopreservation is carried out at a temperature of  $-80^\circ\text{C}$  or lower.
4. (Withdrawn) A method according to claim 1, wherein the cryopreservation is carried out in liquid nitrogen.
5. (Withdrawn) A method according to claim 1, wherein the cryopreservation is carried out for a period of 1 week or more.
6. (Withdrawn) A method according to claim 1, wherein the skin tissue is from a mouse.
7. (Withdrawn) A method according to claim 1, wherein the skin tissue is from a rat.
8. (Withdrawn) A method according to claim 1, wherein the skin tissue is from a human.
9. (Withdrawn) A composition for regenerating hair follicles comprising hair dermal papilla cell and epidermal cells; wherein, the ratio of the number of hair dermal papilla cell to the number of epidermal cells is from 1:10 to 10:1.

10. (Withdrawn) A composition according to claim 9, wherein the ratio of the number of hair dermal papilla cell to the number of epidermal cells is about 1:1.

11. (Previously presented) A composition comprising a hair dermal papilla cell preparation and epidermal cells, wherein the preparation is prepared by a method comprising:

providing skin tissue;

removing epidermal tissue from the skin tissue, thereby producing a dermal tissue fraction;

subjecting the dermal tissue fraction to collagenase treatment, thereby producing a cell suspension comprising hair dermal papilla cells;

cryopreserving the cell suspension to kill the follicular epidermal cells present in the cell suspension, thereby producing a hair dermal papilla cell preparation; and

mixing the preparation with active epidermal cells so that the ratio of the number of hair dermal papilla cells to the number of active epidermal cells is from 1:10 to 10:1, thereby producing the composition.

12. (Currently amended) A composition according to claim 11, wherein the ratio of the number of hair dermal papilla cells to the number of epidermal cells is ~~about 1:1~~ from 1:3 to 10:1.

13. (Previously presented) A composition according to claim 11, wherein cryopreserving the cell suspension is carried out after adjusting the cell density of the cell suspension to  $1 \times 10^5$  to  $1 \times 10^8$  cells/ml.

14. (Previously presented) A composition according to claim 11, wherein cryopreserving the cell suspension is carried out at a temperature of -80°C or lower.

15. (Previously presented) A composition according to claim 11, wherein cryopreserving the cell suspension is carried out in liquid nitrogen.

16. (Previously presented) A composition according to claim 11, wherein cryopreserving the cell suspension is carried out for a period of 1 week or more.

17. (Withdrawn) A composition according to claim 9, wherein the hair dermal papilla cell and the epidermal cells both originate in mice, both originate in rats or both originate in humans.

18. (Withdrawn) A composition according to claim 9, wherein the hair dermal papilla cell and the epidermal cells are cells derived from different species, each originating in mice, rats or humans.

19. (Withdrawn) A composition according to claim 9, wherein the epidermal cells originate in human foreskin.

20. (Withdrawn) A method for regenerating hair follicles by transplanting a composition according to claim 9, to a human.

21. (Withdrawn) A method for regenerating hair follicles by transplanting a composition according to claim 9, to a recipient animal.

22. (Withdrawn) A method according to claim 21, wherein the recipient animal is an immunosuppressed animal.

23. (Withdrawn) A method according to claim 21, wherein the recipient animal is an immunosuppressed animal selected from the group consisting of a nude mouse, SCID mouse and nude rat.

24. (Withdrawn) A method according to claim 20, wherein the composition is transplanted such that the amount of transplanted hair dermal papilla cell is  $1.0 \times 10^6$  to  $1 \times 10^8/\text{cm}^2$ .

25. (Withdrawn) A method according to claim 20, wherein the composition is transplanted such that the amount of transplanted hair dermal papilla cell is  $1.0 \times 10^7$  to  $1.5 \times 10^7/\text{cm}^2$ .

26. (Withdrawn) A method for regenerating hair follicles by producing a three-dimensional skin equivalent containing a composition according to claim 9.

27. (Withdrawn) A method according to claim 26, wherein hair dermal papilla cell are contained in the three-dimensional skin equivalent in an amount of  $1.0 \times 10^6$  to  $1 \times 10^8/\text{cm}^2$ .

28. (Withdrawn) A method according to claim 26, wherein the hair dermal papilla cell are contained in the three-dimensional skin equivalent in an amount of  $1.0 \times 10^7$  to  $1.5 \times 10^7/\text{cm}^2$ .

29. (Withdrawn) A chimeric animal having reorganized hair follicles by transplanting a composition according to claim 9, into a recipient animal.

30. (Withdrawn) A chimeric animal according to claim 29, wherein the recipient animal is an immunosuppressed animal.

31. (Withdrawn) A chimeric animal according to claim 29, wherein the recipient animal is an immunosuppressed animal selected from the group consisting of a nude mouse, SCID mouse or nude rate.

32. (Withdrawn) A chimeric animal according to claim 29, wherein the composition is transplanted such that the amount of transplanted hair dermal papilla cell is  $1.0 \times 10^6$  to  $1 \times 10^8/\text{cm}^2$ .

33. (Withdrawn) A chimeric animal according to claim 29, wherein the composition is transplanted such that the amount of transplanted hair dermal papilla cell is  $1.0 \times 10^7$  to  $1.5 \times 10^7/\text{cm}^2$ .

34. (Withdrawn) A three-dimensional skin equivalent having reorganized hair follicles by producing a threedimensional skin equivalent containing a composition according to claim 9.

35. (Withdrawn) A three-dimensional skin equivalent according to claim 34, wherein hair dermal papilla cell are contained in an amount of  $1.0 \times 10^6$  to  $1 \times 10^8/\text{cm}^2$ .

36. (Withdrawn) A three-dimensional skin equivalent according to claim 34, wherein hair dermal papilla cell are contained in an amount of  $1.0 \times 10^7$  to  $1.5 \times 10^7/\text{cm}^2$ .

37. (New) The composition of claim 11, wherein the hair dermal papilla cells and the active epidermal cells both originate in mice, both originate in rats or both originate in humans.

38. (New) The composition of claim 11, wherein the hair dermal papilla cells and the active epidermal cells are obtained from different mammals, each originating in mice, rats or humans.

39. (New) The composition of claim 11, wherein the active epidermal cells originate in human foreskin.